HRS

	S	S^2
Groundwater Route Score (S_{gw})	3.28	10.76
Surface Water Route Score (S_{sw})	3.10	9.61
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		20.37
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		4.51
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		2.61

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	4.47	19.98
Surface Water Route Score (S_{sw})	10.63	113.00
Air Route Score (S_a)	55.00	3025.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		3157.98
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		56.20
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		32.49

WORKSHEET FOR COMPUTING S_M

○ = HRS

□ = PRO

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Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) [45]	1	0	45	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					
Depth to Aquifer of Concern	0 1 (2) 3	2	4	6	4
Net Precipitation	0 1 (2) 3	1	2	3	2
Permeability of the Unsaturated Zone	0 1 (2) 3	1	2	3	2
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			11	15	11
3 Containment	0 1 2 (3)	1	3	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			19	26	19
5 Targets					
Ground Water Use	0 (1) 2 3	3	3	9	3
Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
Total Targets Score			3	49	3
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			1881	57,330	2565
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 3.28			4.47

○ = HRS
□ = PRO

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Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	45
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	0
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	2
Distance to Nearest Surface Water	0 (1) 2 3	2	2	6	2
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			7	15	7
3 Containment	0 1 2 (3)	1	3	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			19	26	19
5 Targets					
Surface Water Use	0 (1) (2) 3	3	3	9	6
Distance to a Sensitive Environment	0 (1) 2 3	2	2	6	2
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
Total Targets Score			5	55	8
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			1995	64,350	6840
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} = 3.10			10.63

0 = HRS
□ = PRO

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Air Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
[1] Observed Release	(0) [45]	1	0	45	45
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 0. Enter on line [5] If line [1] is 45, then proceed to line [2]					
[2] Waste Characteristics					
Reactivity and Incompatibility	0 1 2 [3]	1		3	3
Toxicity	0 1 2 [3]	3		9	9
Hazardous Waste Quantity	0 [1] 2 3 4 5 6 7 8	1		8	1
	Total Waste Characteristics Score			20	13
[3] Targets					
Population Within 4-Mile Radius	0 9 12 15 18 / 21 [24] 27 30	1		30	24
Distance to Sensitive Environment	0 1 2 [3]	2		6	6
Land Use	0 1 2 [3]	1		3	3
	Total Targets Score			39	33
[4] Multiply [1] x [2] x [3]				35,100	19,305
[5] Divide line [4] by 35,100 and multiply by 100		S_a = (0)			55.00